HONDRIAL DNA AUTOSCORING SYSTEM
Stockwell et al.
Appl. No.: Unknown Atty Docket: ABIOS.042A

TPLACEMENT SHEET

System components and tunable parameters

Program	Function performed	
BlastParse.pl	Parse BLAST output	
mark_substitution_heteroplasmy.pl	Mark ambiguous base calls	
extract_SE_consensus.pl	Extract a consensus sequence from a phrap polyphred run, replacing low quality bases with '?', and polyphred rank 1 bases with 'N'.	
compute_coverage.pl	Calculates overall, forward strand, and reverse strand coverage for all bases in the consensus sequence	
count_hv1_deletes.pl	Count deletions in HV1 relative to the rCRS	
border_index.pl	Compute start and end positions of HV1 and HV2 regions.	
fix_mitotype_reporting_range.pl	Output a mtDNA profile based on input variants list and reportable range.	
find_bad_traces_from_blast_report.pl	Reject reads that do not align appropriately to the rCRS	
determineReadTypes.pl	Adds template name, template type, and primer type to phred output files.	
seq2delta_vs	Align mtDNA profile to rCRS and report variants according to nomenclature.	
calculate_coverage_mitotype.pl	Mask mtDNA consensus sequence based on required coverage and calculated coverage	
count_hv1_inserts.pl	Count insertions in HV1 relative to the rCRS	
generate_hv_mask_fasta_files.pl	Extract the HV1 portion and HV2 portion of the mtDNA consensus sequence, based on the computed HV1 and HV2 regions.	
flip_fasta.pl	Invert an X masked sequence output by cross match	

FIG. 5

HONORUL DNA AUTOSCURING SISTEM REPLY CEMENT SHEET

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Assessment 1 Assessment 2

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Total True Positives: National = National	.16	10
Total True Negatives: Assembled = Amazuri	77,358	110,354
Total False Positives: Neutomated = Amanual	95	807
Total False Negatives: A settlemated = N prizantal	64	14
Total Incorrect	0	0
Sensitivity: TP/(TP+FN)	72.73%	41.67%
Specificity: TN/(TN+FP)	99.88%	99.27%
Positive Predictive Value: TP/(TP+FP)	14.41%	1.22%
Negative Predictive Value: TN/(TN+FN)	99.99%	99.99%
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Predominate base correctly called

Differences take into account the consensus of the two analysts